

53. The method of claim 35, wherein said liver tissue is obtained from a mouse, rat, dog, baboon, or pig.

54. The method of claim 35, wherein said liver tissue is obtained from a human.

55. The method of claim 35, wherein said liver tissue is obtained from a living or deceased donor.

56. The method of claim 35, wherein said liver tissue is normal liver tissue.

57. The method of claim 35, wherein said cluster is isolated from said liver tissue prior to a mechanical injury or exposure to a carcinogen.

58. The method of claim 35, wherein said sample comprises at least 60% doublets.

59. The method of claim 35, wherein said sample comprises at least 90% doublets.

60. The method of claim 35, wherein said sample comprises at least 99% doublets.

61. The method of claim 35, further comprising dissociating said stem cell from said hepatocyte and removing said hepatocyte to yield an population of isolated stem cells.

62. The method of claim 61, wherein said population comprises at least 60% stem cells.

63. The method of claim 61, wherein said population comprises at least 90% stem cells.

64. The method of claim 61, wherein said population comprises at least 99% stem cells.

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In the specification:

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